

MR16H/MR16HD



Ordering method

Single carriage model

MR16H						SR1-P	10			
Model	Cable carrier entry location	Optional cable carrier for users	Option	Stroke	Cable length	Controller	Driver	Usable for CE	Regenerative unit	I/O selection
MR16H: Incremental MR16HA: Semi-absolute ^{Note 1}	RH: Horizontal, right LH: Horizontal, left RW: Wall mounted, right LW: Wall mounted, left	No entry: None S: S type M: M type	Origin position: None: Standard change Z: R side Grease type: None: Standard GC: Clean ^{Note 2}	100 to 1500 (100mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-P		No entry: Standard E: CE making	No entry: None	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 5}

Double carriage model

MR16HD						RCX221				
Model	Installing direction	Optional cable carrier for users	Option	Stroke	Cable length	Controller	Usable for CE	Regenerative unit	I/O selection 1	I/O selection 2
MR16HD: Incremental MR16HAD: Semi-absolute ^{Note 1}	H: Horizontal installation W: Wall mounted installation	No entry: None S: S type M: M type	Grease type: None: Standard GC: Clean ^{Note 2}	100 to 1300 (100mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	RCX221 SR1-P (2 units) ^{Note 4}	No entry: Standard E: CE making	No entry: None	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet YC: YC-Link ^{Note 5}	No entry: None NT: OPDIO24/16 (NPN) P1: OPDIO24/17 (PNP) EN: Ethernet

Note 1. Semi-absolute models are supported by the SR1-P and RCX221. For the details of the semi-absolute model, please refer to P.018. RDP has an incremental model only.

Note 2. The clean grease model is made on order. Please consult us separately for it.

Note 3. To find RDP selection options, see the ordering method on P. 365.

Note 4. When using the SR1-P or PDP to control a double-carriage robot, two units are required.

Note 5. Available only for the slave.

Note 6. Available only for the master.

Note 7. It is possible to provide the model without a cable carrier. To find information on wiring (cable terminals) within the cable carrier see P. 427

Specification ^{Note}

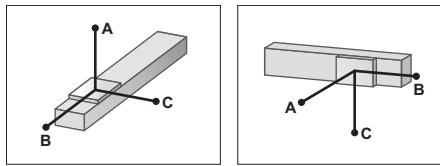
Model	MR16H	MR16HD
Driving method / Shaft diameter	Shaft motor / ϕ 16	
Repeatability (μ m)	+/-5 or less	
Scale (μ m)	Magnetic type: resolution of 1	
Maximum speed ^{Note 1} (mm/sec)	2500	
Rated thrust (N)	37	
Maximum payload ^{Note 2} (kg)	9	
Stroke (mm)	100 to 1500 (100mm pitch)	100 to 1300 (100mm pitch)
Linear guide	2 rows of gothic arch grooves x 1 railseal	
Maximum cross-section outside dimensions (mm)	W80 x H100 (except the cable carrier section)	
Total length (mm)	Stroke+338	Stroke+568
Cable length (m)	Standard: 3.5 / Option: 5,10	

Note. A vertical model (with brake) is not available with the PHASER series.
Note. The basic specifications of semi-absolute model are the same as those of the incremental model.

Note 1. Maximum speed may not be obtained depending on operating conditions.

Note 2. Maximum payload per carriage.

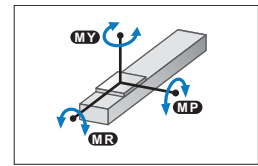
Allowable overhang ^{Note}



	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)		
	A	B	C	A	B	C
3kg	1800	1800	272	3kg	208	1800
5kg	2901	2391	162	5kg	94	1171
7kg	2541	1726	114	7kg	45	0
9kg	2846	1366	88	9kg	18	0

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Static loading moment

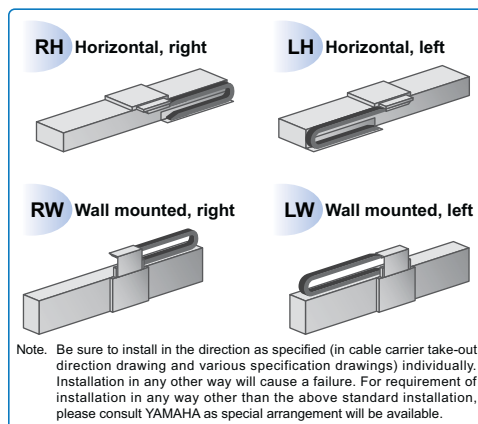


(Unit: N-m)		
MY	MP	MR
189	190	113

Controller

Controller	Operating method
SR1-P-10	Programming / I/O point trace (BCD) / Remote command /
RCX221	Operation using RS-232C communication

Cable carrier entry location



Optional cable carrier for users

